

# 1-STEP EQUATIONS

name \_\_\_\_\_

## I. Checking Solutions

per. \_\_\_\_\_ date \_\_\_\_\_

Is the given value a solution for the equation/inequality? (answer YES or NO).

**\*SHOW WORK:** substitute the value into the equation/inequality & see if you have a true or false statement.

1)  $x - 12 = 8$  if  $x = 4$

2)  $x \div 5 = -10$  if  $x = -50$

3)  $4m - 9 = 37$  if  $m = 12$

$4 - 12 = 8$ ? **NO**

4)  $\frac{w}{5} + 6 = 13.4$  if  $w = 37$

5)  $3m + 6 = 5m - 24$  if  $m = 15$

6)  $4(2h - 8) - 12 = 16$  if  $h = 30$

$3 \cdot 15 + 6 = 5 \cdot 15 - 24$ ?

$51 = 51$ ? **YES**

7)  $6v < 48$  if  $v = 10$

8)  $f - 5 \leq 16$  if  $f = 11$

9)  $4c - 2 > 14$  if  $c = 4$

10)  $4j - 7 \leq 6j + 5$  if  $j = 4.6$

11)  $11n \neq 30$  if  $n = 12$

12)  $4(2x + 3) + 2x = 8x - 6$ ,  $x = -9$

Solve the following by arranging into layers &amp; doing the opposite operation to both sides.

13.)  $x + 6 = 10$

$-6 \quad -6$

$x = 4$

14.)  $m - 3.5 = 9.2$

15.)  $2m = 27$

16.)  $f \div 4 = 8$

17.)  $k + 55 = 22$

18.)  $m - 3.5 = -3.2$

19.)  $-2n = 20$

20.)  $\frac{m}{5} = 30$

21.)  $w - (-8) = 6$

22.)  $y - 5\frac{3}{8} = 10\frac{3}{4}$

23.)  $5c = 26.8$

24.)  $\frac{p}{1.8} = 9.2$

25.)  $x + 16 = -15$

26.)  $m - (-5) = 92$

27.)  $-5m = -44$

28.)  $f \div 2 = -6$

29.)  $x + (-6) = -24$

30.)  $m - 16 = -45$

31.)  $-\frac{2}{5}v = 14$

32.)  $\frac{p}{12} = -30$